

## Resume:

S. M. A. Hakim Siddiki



- ❖ <https://publons.com/researcher/1338108/sma-hakim-siddiki/>
- ❖ <https://www.scopus.com/authid/detail.uri?authorId=55873922700>
- ❖ <https://scholar.google.co.jp/citations?user=UiyNFLkAAAAJ&hl=en>
- ❖ [https://www.researchgate.net/profile/S\\_M\\_A\\_Siddiki](https://www.researchgate.net/profile/S_M_A_Siddiki)

### Educational Record

Period (month/year)	(University)
10/2007 to 03/2011	PhD (Science, Organic Chemistry) University of Hyogo, Japan.
10/2005 to 09/2007	MS (Science, Organic Chemistry); University of Hyogo, Japan.
10/2000 to 09/2002	MS (Organic Chemistry); University of Dhaka, Bangladesh.
10/1996 to 09/2000	BS [Chemistry (major), Physics and Mathematics (minor), University of Dhaka, Bangladesh.

### Employment Record

Period (month/year)	University/Company (Position)
04/2021 ~ till the date	Department of Chemistry, Tokyo Metropolitan University, (Specially Appointed Associate Professor)
04/2016 ~ 03/2021	Institute for Catalysis, Hokkaido University, (Specially Appointed Assistant Professor)
10/2012 ~ 03/2016	Graduate School of Engineering, Kyoto University, (Postdoctoral Research Fellow with Prof. Ken-ichi Shimizu)
04/2011~ 06/2012	Graduate School of Science, Kyoto University, (Postdoctoral Research Fellow with Prof. Keiji Maruoka)
11/2002~ 09/2005	Beximco Pharmaceuticals Ltd., Bangladesh (Research and Development Officer)

### Competitive External Research Grants/Funds

#### 1. Representative (Principle Investigator)

Name of the grant:	KAKENHI (No.19K05556)
Research Field:	Green sustainable chemistry and environmental chemistry-related,
Project Title:	Development of heterogeneous catalysts for oxidant- free conversion of biomass to fine chemicals.

Period of research: 04-2019 ~ 03-2022

## 2. Non-Representative (Co-Investigator)

Name of the grant: KAKENHI (No.20K05576)

Research Field: Green sustainable chemistry and environmental chemistry-related,

Project Title: Development of sustainable heterogeneous catalysts for step-efficient synthesis of selective oncology drug intermediates.

Period of research: 04-2020 ~ 03-2023

## 3. Non-Representative (Co-Investigator)

Name of the grant: KAKENHI (No.17H01341)

Research Field: Catalyst/Resource chemical process

Project Title: Reductive transformation of carbon dioxide and biomass to chemicals by metal/oxides interface designed.

Period of research: 04-2017 ~ 03-2021.

### Affiliated Association/Scientific Society Memberships:

- 10/2012 ~ to date Catalysis Society of Japan (CSJ)
- 03/2013 ~ to date Japan Petroleum Institute (JPI)
- 03/2006 ~ 03/2011 Chemical Society of Japan (CSJ)
- 10/2000 ~ to date Society for Pharmaceutical Chemists, Bangladesh.
- 10/1996 ~ to date Bangladesh Chemical Society (BCS)

### Major Research Expertise:

- Heterogeneous Catalysis: Synthesis and characterization of supported metal nanoparticle catalysts; Lewis acid-base incorporated metal oxide catalysts; Zeolite catalysts. Pioneer in coupling reactions employing borrowing-hydrogen and dehydrogenative hydrogen transfer methodology-- Transformations of carboxylic acid and its derivatives, Reductive transformation of carboxylic acid derivatives and CO<sub>2</sub> gas.
- Biomass Conversion: Green synthesis of useful chemical using biobased feedstocks.
- Organic Synthesis: Asymmetric synthesis; Asymmetric radical cyclization reactions; Catalytic enantioselective reduction of carbonyl compounds; Asymmetric Metathesis reactions
- Organo-catalysis: Synthesis of amine-based optically pure organo-catalysts; Application to the chiral fine chemical synthesis employing Aldol condensation.